

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 December 2004 (23.12.2004)

PCT

(10) International Publication Number
WO 2004/111841 A2

- (51) International Patent Classification⁷: **G06F 9/40** (74) Agent: **ORIGIN LIMITED**; 52 Muswell Hill Road, London N10 3JR (GB).
- (21) International Application Number: **PCT/GB2004/002475**
- (22) International Filing Date: **10 June 2004 (10.06.2004)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
0313619.9 **12 June 2003 (12.06.2003)** **GB**
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: A METHOD OF AUTOMATICALLY ANALYSING THE STRUCTURE OF A SOFTWARE SYSTEM

A's tree:

```

.   B
.   .
.   C

```

B's tree:

```

.   C

```

D's tree:

```

.   A
.   .
.   .   B
.   .   .
.   .   C
.   .   .
.   .   C
.   .   E
.   .   .
.   .   A
.   .   .   B
.   .   .   .
.   .   .   C

```

E's tree:

```

.   A
.   .
.   .   B
.   .   .
.   .   C

```

F's tree:

```

.   E
.   .
.   .   A
.   .   .
.   .   .   B
.   .   .   .
.   .   .   C

```

(57) Abstract: The invention automatically produces a structural analysis of a software system's executables, separated into levels based on 'dependency depth'. Given a simple list of executables' dependencies, the tool automatically produces a dependency table sorted by level, with the least dependent executables listed at the bottom and with the most dependent at the top. This organises the executables in a rational and repeatable manner that clarifies the high-level view of the inter-dependencies between the many executables. It can also be used to decide the order in which executables need to be built where the least dependent executable is built first.



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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